

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
14 July 2005 (14.07.2005)

PCT

(10) International Publication Number
WO 2005/063840 A1

- (51) International Patent Classification⁷: C08G 18/18, 18/76, 18/48, C07C 249/02
- (21) International Application Number: PCT/US2004/043462
- (22) International Filing Date: 22 December 2004 (22.12.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 60/531,935 23 December 2003 (23.12.2003) US
- (71) Applicant (*for all designated States except US*): DOW GLOBAL TECHNOLOGIES INC. [USA/US]; Washington Street, 1790 Building, Midland, MI 48674 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): DRUMRIGHT, Ray, E. [US/US]; 785 East Olson Road, Midland, MI 48640 (US). PRANGE, Robbyn [US/US]; 2907 Marble Falls Dr., Pearland, TX 77584 (US). CASATI, François, M. [FR/CH]; Etzelstrasse 25, CH-8808 Pfäffikon (CH).
- (74) Agent: ULMER, Duane, C.; The Dow Chemical Company, 2301 N. Brazosport Boulevard, Building B-1211, Freeport, TX 77541-3257 (US).
- (81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2005/063840 A1

(54) Title: NON-FUGITIVE CATALYSTS CONTAINING IMINE LINKAGES AND TERTIARY AMINES, AND POLYURETHANE PRODUCTS MADE THEREFROM

(57) Abstract: The present invention pertains to non-fugitive amine catalysts wherein the catalyst contains at least one imine and at least one tertiary amine moiety. Such catalysts are suitable for the production of polyurethane products.